TITLE: METHOD FOR TRACKING TRANSMISSION STATUS OF DATA TO ENTITIES SUCH AS PEERS IN A NETWORK NEMETHOR'S NAME: ANHONY J. II, ET AL.

SERIAL NO.: 10/748,343 DOCKET NO.: 1370.121US2 REPLACEMENT SHEET

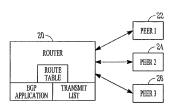


FIG. 1

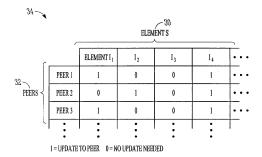


FIG. 2

TITLE: METHOD FOR TRACKING TRANSMISSION STATUS OF DATA TO ENTITIES SUCH AS PEERS IN A NETWORK INVENTOR'S NAME: ANTHONY J. LI, ET AL.

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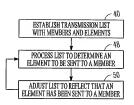


FIG. 3

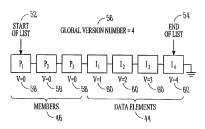


FIG. 4

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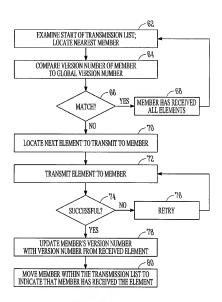


FIG. 5

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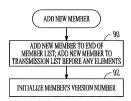


FIG. 6

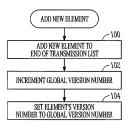


FIG. 7



FIG. 8

TITLE: METHOD FOR TRACKING TRANSMISSION STATUS OF DATA TO ENTITIES SUCH AS PEERS IN A NETWORK INVENTOR'S NAME: ANTHONY J. LI, ET AL.
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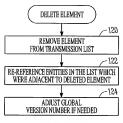


FIG. 9

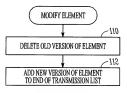


FIG. 10

INVENTOR'S NAME: ANTHONY J. LI, ET AL. SERIAL NO.: 10/748,343 DOCKET NO.: 1370.121US2 REPLACEMENT SHEET

$$\begin{array}{c} \text{GVN} = 0 \\ \text{TX LIST} \\ \text{MEMBER LIST} \\ \text{142} \\ \end{array} \quad \begin{array}{c} \text{P}_1 \\ \text{P}_2 \\ \text{P}_3 \\ \text{P}_{142} \\ \end{array} \quad \begin{array}{c} \text{END} \\ \text{P}_3 \\ \text{P}_{142} \\ \text{P}_{142} \\ \end{array} \quad \begin{array}{c} \text{END} \\ \text{P}_{142} \\ \text{P}_{142} \\ \text{P}_{143} \\ \text{P}_{144} \\ \text{P}_{1$$

FIG. 11A

START ADDI;
$$GVN = 1$$

TX LIST $P_1 = P_2 = P_3 = I_1 = I_{152}$

FIG. 11B

$$\begin{array}{c} \text{TX LIST} \\ \text{MEMBER LIST} \\ \text{V=0} \end{array} \begin{array}{c} \text{START} \\ \text{V=0} \end{array} \begin{array}{c} \text{ADD I}_{2} \text{ GVN} = 2 \\ \text{V=2} \end{array} \begin{array}{c} \text{END} \\ \text{V=1} \\ \text{V=1} \end{array} \begin{array}{c} \text{END} \\ \text{V=2} \\ \text{V=2} \end{array}$$

FIG. 11C

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 $\begin{array}{c} \text{START} & \text{ADDI}_{1}; \text{GVN}=3 \\ \text{TXLIST} & \stackrel{}{ } \stackrel{$

FIG. 11D

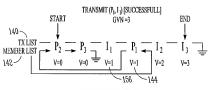


FIG. 11E

TRANSMIT
$$(P_2 I_1)$$
 [UNSUCCESSFULL]

START

TRANSMIT $(P_2 I_1)$ [UNSUCCESSFULL]

GVN = 3

END

TX LIST

P2

P3

I1

V=0

V=0

V=0

V=1

V=1

V=1

V=1

FIG. 11F

TITLE: METHOD FOR TRACKING TRANSMISSION STATUS OF DATA TO ENTITIES SUCH AS PEERS IN A NETWORK INVENTOR'S NAME: ANTHONY J. UJ. ET AL.

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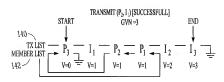


FIG. 11G

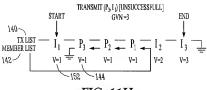


FIG. 11H

TITLE: METHOD FOR TRACKING TRANSMISSION STATUS OF DATA TO ENTITIES SUCH AS PEERS IN A NETWORK INVENTOR'S NAME: ANTHONY J. UI, ET AL.

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 $\begin{array}{c} \text{TRANSMIT} (P_3, I_2) [\text{SUCCESSFULL}] \\ \text{GVN} = 3 \\ \text{TX LIST} \qquad \begin{matrix} \text{END} \\ \downarrow \\ \text{V=I} \end{matrix} \qquad \begin{matrix} \text{END} \\ \downarrow \\ \text{V=I} \end{matrix} \qquad \begin{matrix} \text{V=I} \\ \text{V=I} \end{matrix} \qquad \begin{matrix} \text{V=2} \\ \text{V=2} \end{matrix} \qquad \begin{matrix} \text{V=2} \\ \text{V=3} \end{matrix} \qquad \begin{matrix} \text{V=3} \\ \text{V=3} \end{matrix} \qquad \begin{matrix} \text{END} \\ \downarrow \\ \text{V=1} \end{matrix} \qquad \begin{matrix} \text{V=1} \\ \text{V=1} \end{matrix} \qquad \begin{matrix} \text{V=2} \\ \text{V=2} \end{matrix} \qquad \begin{matrix} \text{V=2} \\ \text{V=3} \end{matrix} \qquad \begin{matrix} \text{V=3} \\ \text{V=3} \end{matrix} \qquad \begin{matrix} \text{END} \\ \text{V=1} \end{matrix} \qquad \begin{matrix} \text{Constraints} \\ \text{V=2} \end{matrix} \qquad \begin{matrix} \text{V=2} \\ \text{V=3} \end{matrix} \qquad \begin{matrix} \text{V=2} \\ \text{V=3} \end{matrix} \qquad \begin{matrix} \text{Constraints} \\ \text{V=3} \end{matrix} \qquad \begin{matrix} \text{Constraints} \\ \text{V=1} \end{matrix} \qquad \begin{matrix} \text{Constraints} \\ \text{Constraints} \end{matrix} \qquad \begin{matrix} \text{Constraints} \end{matrix} \qquad \begin{matrix} \text{Constraints} \\ \text{Constraints} \end{matrix} \qquad \begin{matrix} \text{Constraints} \\ \text{Constraints} \end{matrix} \qquad \begin{matrix} \text{Constraints} \end{matrix} \qquad \begin{matrix} \text{Constraints} \\ \text{Constraints} \end{matrix} \qquad \begin{matrix} \text{Constraints} \end{matrix} \qquad \end{matrix} \qquad \begin{matrix} \text{Constraints} \end{matrix} \qquad \begin{matrix} \text{Constraints} \end{matrix} \qquad \begin{matrix} \text{Constraints} \end{matrix} \qquad \end{matrix} \end{matrix} \qquad \begin{matrix} \text{Constraints} \end{matrix} \qquad \begin{matrix} \text{Constraints} \end{matrix} \qquad \end{matrix} \end{matrix} \qquad \begin{matrix} \text{Constraints} \end{matrix} \qquad \end{matrix} \end{matrix} \qquad \begin{matrix} \text{Constraints} \end{matrix} \qquad \begin{matrix} \text{Constraints} \end{matrix} \end{matrix} \qquad \end{matrix} \end{matrix} \qquad \begin{matrix} \text{Constraints} \end{matrix} \qquad \end{matrix} \end{matrix} \qquad \begin{matrix} \text{Constraints} \end{matrix} \end{matrix} \end{matrix} \qquad \begin{matrix} \text{Constraints} \end{matrix} \end{matrix} \end{matrix} \qquad \begin{matrix} \text{Constraints} \end{matrix} \end{matrix} \end{matrix} \qquad$

FIG. 11I

$$\begin{array}{c} \text{TRANSMIT}(P_2, I_2) [\text{SUCCESSFULL}] \\ \text{GVN} = 3 \\ \end{array} \begin{array}{c} \text{END} \\ \downarrow \\ \text{TX LIST} \\ \begin{array}{c} - I_1 \\ \text{V=1} \end{array} \begin{array}{c} P_1 \\ \text{V=1} \end{array} \begin{array}{c} I_2 \\ \text{V=2} \end{array} \begin{array}{c} P_2 \\ \text{V=2} \end{array} \begin{array}{c} P_3 \\ \text{V=3} \end{array} \begin{array}{c} - I_3 \\ \text{V=3} \end{array} \begin{array}$$

FIG. 11J

$$\begin{array}{c} \text{TRANSMIT} (P_{\text{p}} 1_{2}) [\text{SUCCESSFULL}] \\ \text{GVN=3} \end{array} \begin{array}{c} \text{END} \\ \text{VI} \\ \text{TXLIST} \end{array} \\ \begin{array}{c} \text{I}_{1} \\ \text{V=1} \end{array} \begin{array}{c} \text{I}_{2} \\ \text{V=2} \\ \text{V=2} \end{array} \begin{array}{c} \text{V=2} \\ \text{V=2} \\ \text{V=2} \end{array} \begin{array}{c} \text{V=2} \\ \text{V=2} \\ \text{V=3} \end{array} \\ \begin{array}{c} \text{V=3} \\ \text{V=3} \end{array} \end{array}$$

FIG. 11K

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$$\begin{array}{c} \text{TRANSMIT} (P_{p}, I_{2}) \text{[SUCCESSFULL]} \\ \text{GVN} = 3 \\ \text{TX LIST} \longrightarrow \begin{array}{c} \text{END} \\ \downarrow \\ \text{TY} \\ \text{V=I} \end{array} \begin{array}{c} \text{V=2} \\ \text{V=2} \end{array} \begin{array}{c} \text{P}_{2} \longrightarrow \begin{array}{c} \text{P}_{3} \longrightarrow \begin{array}{c} \text{I}_{3} \longrightarrow \begin{array}{c} \text{P}_{1} \longrightarrow \\ \downarrow \\ \text{V=3} \end{array} \end{array} \begin{array}{c} \text{END} \\ \downarrow \\ \text{V=1} \end{array}$$

FIG. 11L

$$\begin{array}{c} \text{TRANSMIT} (P_0, I_2) [\text{SUCCESSFULL}] \\ \text{GVN} = 3 \\ \text{TXLIST} \longrightarrow \begin{array}{c} \text{END} \\ \downarrow \\ \text{V=1} \end{array} \begin{array}{c} \text{END} \\ \downarrow \\ \text{V=2} \end{array} \begin{array}{c} \text{V=3} \\ \text{V=2} \end{array} \begin{array}{c} \text{V=3} \\ \text{V=3} \end{array} \begin{array}{c} \text{V=3} \\ \text{V=3} \end{array} \begin{array}{c} \text{V=3} \\ \text{V=3} \end{array} \begin{array}{c} \text{V=3} \\ \text{V=4} \end{array}$$

FIG. 11M

$$\begin{array}{c} \text{TRANSMIT} (P_2, I_3)[\text{SUCCESSFULL}] \\ \text{CVN} = 3 \\ \text{TXLIST} \qquad \qquad I_1 \qquad \qquad I_2 \qquad \qquad I_3 \qquad \qquad P_3 \qquad \qquad P_2 \qquad \qquad P_1 \\ \text{V=1} \qquad \qquad V = 2 \qquad \qquad V = 3 \qquad \qquad V = 3 \qquad \qquad V = 3 \\ \text{V=1} \qquad \qquad V = 2 \qquad \qquad V = 3 \qquad \qquad V = 3 \\ \text{158} \qquad \qquad V = 3 \qquad \qquad V = 3 \\ \end{array}$$

FIG. 11N

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START MARKER END I_1 I_2 I_3 I_3

FIG. 12A

 $P_3 - P_2 - P_1$

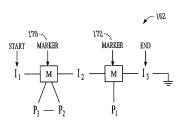


FIG. 12B